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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/713,116	11/17/2003	Yoichi Taira	JP919990142US2	9798	
21254	7590 06/28/2004		EXAMINER		
MCGINN & GIBB, PLLC			DUDEK, JAMES A		
8321 OLD COURTHOUSE ROAD SUITE 200		ART UNIT	PAPER NUMBER		
VIENNA, VA	A 22182-3817		2871		
			DATE MAILED: 06/28/2004	DATE MAILED: 06/28/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/713,116	TAIRA ET AL.				
Office Action Summary	Examiner	Art Unit				
	James A. Dudek	2871				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespond nce address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	<u>.</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	•					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>9-11,23-25 and 33</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>9-11,23-25 and 33</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the o	Irawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	• • • • • • • • • • • • • • • • • • • •	` ,				
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (PTO-152)				

Art Unit: 2871

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 9, 11 and 33 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by PCT/US95/04424 ("424").

In re claims 9 and 33, 424 teaches a backlight apparatus comprising: a wedge-type light guide having a refractive index nl [see wedge 206 in figure 28, page 18 last full paragraph n1=1.49 and page 66], and having a top surface, a bottom surface and a side surface [inherent]; a light source for directing light to said side surface of said wedge-type light guide [see 217]; a first light transmission layer having a refractive index n2, which is smaller than said refractive index nl [see converter 226, page 18 last full paragraph (n2=1.35) and figure 28], and having a top surface and a bottom surface [inherent], wherein said bottom surface of said first light transmission layer is attached to said top surface of said wedge-type light guide [see figures 28]; and plurality of prisms attaches on said top surface of said light transmission layer [see 224 shown in figure 28].

In re claim 11, 1.35 is approximately 1.3, thus 424 anticipates claim 11.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 10 and 23 rejected under 35 U.S.C. 103(a) as being unpatentable over 424.

In re claim 23, 424 uses the light guide with LCDs. 424 fails to explicitly teach the upper and lower transparent substrate, the LC material between the substrates and the diffuser adjacent the upper substrate. However, it was well known that an LCD have an upper and lower substrate and diffuser adjacent the upper substrate in order to seal the LC material and decrease pixelation. The LC material is inherent. Accordingly, it would have been obvious to one of ordinary skill at the time the invention was made to use a cell with the well known substrates and diffuser to seal the LC material and decrease the screen door effect.

In re claim 10 and 24, 424 lacks the exact range. However, overlapping ranges are at least obvious. Accordingly, it would have been obvious to one of ordinary skill at the time the invention was made to use the claimed ranges to improve light output.

In re claim 25, see claim 11 rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 571-272-2290. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866(217-97)97 (toll-free).

James A. Dudek Primary Examiner Art Unit 2871